IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A method of operating an imaging device with a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and processing the pixel signals, representing output signals of image sensors combined by a binning operation, at a maximum rate of no more than G_{max}, ~~in which method~~comprising:

- presetting, on said imaging device, at least one parameter~~is preset~~ in order to define a sub-region of the field~~,~~; and

- deriving, by said imaging device, any remaining parameters for defining the sub-region as well as a binning factor b and an imaging rate f, said deriving being performed, in view of the at least one preset parameter,~~are defined~~ in such a manner that the maximum rate G_{max} of the evaluation unit is not exceeded during the reading out of all pixel signals from the sub-region.

2. (previously presented) The method as claimed in claim 1, characterized in that the image sensors are arranged in a periodic pattern in a rectangular field, the sub-region having a rectangular shape with its sides extending parallel to the edges of the field.

3. (previously presented) The method as claimed in claim 1, characterized in that the image sensors are X-ray sensors.

4. (currently amended) ~~The method as claimed in claim 1~~A method of operating an imaging device with a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and processing the pixel signals, representing output signals of image sensors combined by a binning operation, at a maximum rate of no more than G_{max}, in which method

- at least one parameter is preset in order to define a sub-region of the field,

- any remaining parameters for defining the sub-region as well as a binning factor b and an imaging rate f are defined in such a manner that the maximum rate G_{max} of the evaluation unit is not exceeded during the reading out of all pixel signals from the sub-region, characterized in that the sub-region is preset in the service mode of the imaging device.

5. (currently amended) The method as claimed in claim 1, ~~characterized in that there are~~wherein said deriving comprises following, by said imaging device, specified rules in conformity with which variables are changed relative to their current values in order to ensure that the maximum rate G_{max} is adhered to.

6. (currently amended) ~~The method as claimed in claim 1~~A method of operating an imaging device with a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and processing the pixel signals, representing output signals of image sensors combined by a binning operation, at a maximum rate of no more than G_{max}, in which method

- at least one parameter is preset in order to define a sub-region of the field,

- any remaining parameters for defining the sub-region as well as a binning factor b and an imaging rate f are defined in such a manner that the maximum rate G_{max} of the evaluation unit is not exceeded during the reading out of all pixel signals from the sub-region, characterized in that the evaluation of the pixel signals is performed by means of calibration images related to the sub-region.

7. (previously presented) The method as claimed in claim 6, characterized in that

- sub-regions are selected which cover the entire field of the image sensors;

- for each of the sub-regions related calibration images are generated with predetermined imaging parameters;

- from the calibration images of the sub-regions there are generated overall calibration images for the imaging parameters which are related to the entire field of image sensors;

- calibration images for an arbitrary new sub-region are acquired from the overall calibration images.

8. (previously presented) The method as claimed in claim 6, characterized in that dark images of the sub-region are generated and used as calibration images.

9. (currently amended) An imaging device which includes a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and

processing the pixel signals, representing output signals of image sensors combined by a

binning operation, at a maximum rate of no more than G_{max}, the imaging device being

~~arranged~~configured

to enable ~~the~~ presetting of at least one parameter in order to define a sub-region of the

field, and further configured for deriving

~~to define~~ any remaining parameters for defining the sub-region as well as a binning

factor b and an imaging rate f, said deriving being performed, in view of the at least one

preset parameter, in such a manner that the maximum rate G_{max} of the evaluation unit is

not exceeded during the reading out of all pixel signals from the sub-region.

10. (currently amended) ~~The imaging device as claimed in claim 9,~~ An imaging device

which includes a two-dimensional field of image sensors as well as an evaluation unit

which is capable of reading out and processing the pixel signals, representing output

signals of image sensors combined by a binning operation, at a maximum rate of no more

than G_{max}, the imaging device being arranged

   - to enable the presetting of at least one parameter in order to define a sub-region of the

field,

   - to define any remaining parameters for defining the sub-region as well as a binning

factor b and an imaging rate f in such a manner that the maximum rate G_{max} of the

evaluation unit is not exceeded during the reading out of all pixel signals from the sub-

region.

_characterized in that ~~it~~the imaging device comprises an X-ray apparatus with an adjustable diaphragm arrangement in the beam path, at least one adjustment parameter of the diaphragm device being presettable while any remaining adjustment parameters are automatically set.

11. (new) The method as claimed in claim 1, wherein said any remaining parameters amount to one or more parameters.

12. (new) The method as claimed in claim 4, wherein said operating, including the defining in said such a manner, occurs in a mode distinct from said service mode.

13. (new) The method as claimed in claim 1, wherein said deriving comprises calculating one or more parameters from among said binning factor, said imaging rate, and said remaining parameters.

14. (new) The imaging device as claimed in claim 9, wherein said deriving comprises calculating one or more parameters from among said binning factor, said imaging rate, and said remaining parameters.